

Exercise 1

Modeling algorithms of methods Character strings in the C language are encoded as an array of non-null characters, terminated by a special character.

For example, the string $s = \text{"hello!"}$ is encoded as follows:

$s[0]$	$s[1]$	$s[2]$	$s[3]$	$s[4]$	$s[5]$	$s[6]$
'h'	'e'	'l'	'l'	'o'	'!'	'\0'

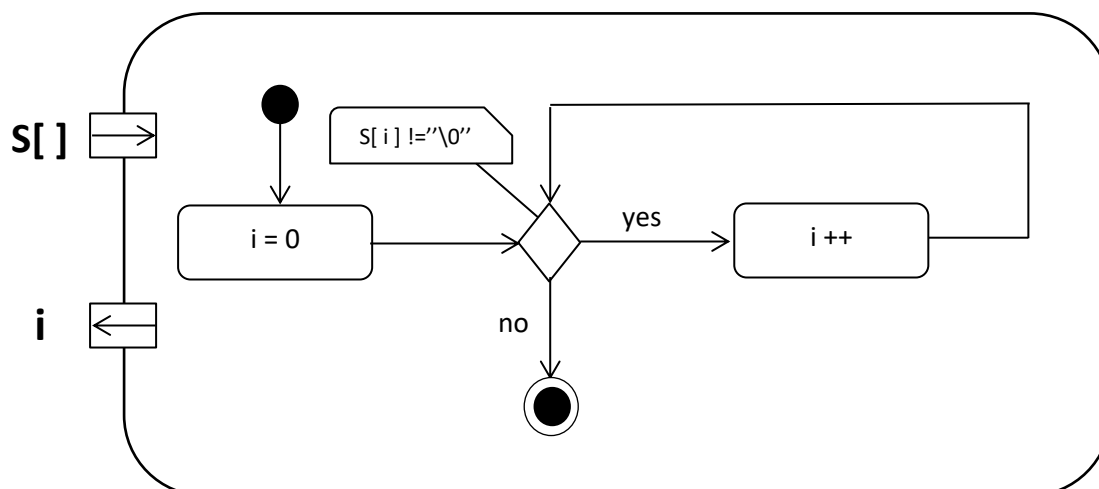
Question:

Describe an activity implementing the function `strlen`, which takes as input an array of characters and returns an integer corresponding to the length of the string.

A possible implementation could be:

```
Int strlen (char S[ ])
{
    int i;
    i = 0;
    while s[i] != '\0'
        i++;
    return i;
}
```

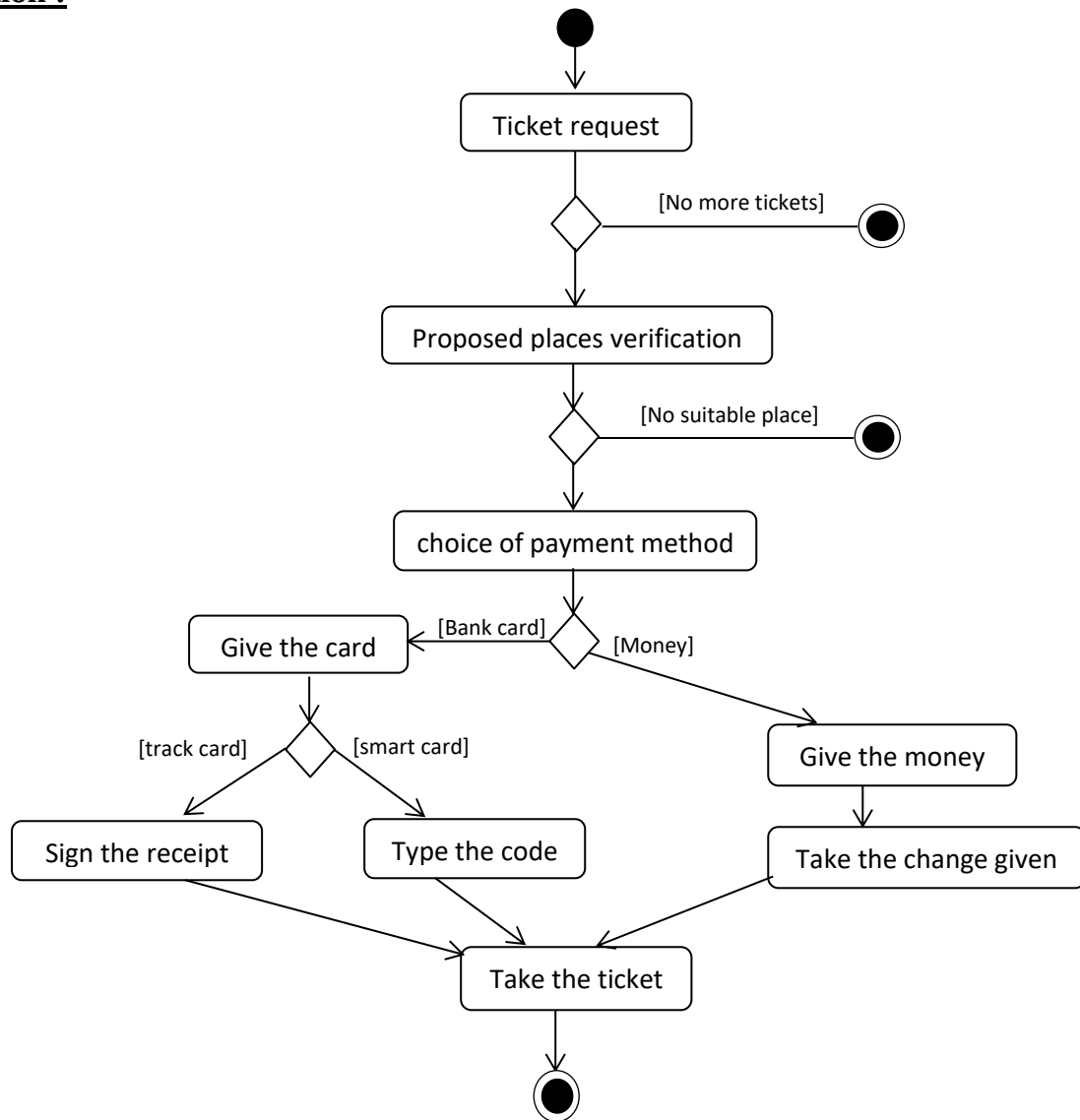
Solution :



Exercise 2

Build the activity diagram for purchasing a football match ticket.

Solution :



Exercise 3:

Build the activity diagram representing the use of an ATM (Automated Teller Machine).

Solution :

